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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,615	03/06/2007	Walter Dennis Robertson III	35015/044US	9787
26263	7590	03/24/2010		
SONNIENSCHEIN NATH & ROSENTHAL LLP			EXAMINER	
P.O. BOX 061080			HOGAN, JAMES SEAN	
WACKER DRIVE STATION, WILLIS TOWER				
CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			03/24/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/573,615	Applicant(s) ROBERTSON III ET AL.
	Examiner JAMES S. HOGAN	Art Unit 3752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 January 2010.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 11,13-17,19 and 20 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 11,13-17,19 and 20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Prosecution Reopened

The rejection of claims as per the Final Office Action of July 30, 2009 has been withdrawn and the following is a result of a reconsideration of the prior art.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 11, 13, 17, 19 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6, 220,569 to Kelly.
3. As per claims 11 and 17, Kelly discloses (see Figures 1 and 2) an orifice member (at (15)) defining a first surface, the orifice member having an inlet and an outlet (at (13)), a plunger (32), pole (51) and coil (62) which energizes to move the plunger, the plunger being movable relative to the orifice member; a first guide spring (26) situated between the orifice member and the plunger and having a portion attached to a first end of the pole when the coil is energized, the first guide spring defining a second surface (32), the second surface being sealable against the first surface to prevent fluid flow between the inlet and the outlet, the fist and second sealing surfaced being co-planer when the plunger is in its closed position.
4. As per claim 13 and 19, the plunger is moved to the open position when the coil is energized.

5. As per claim 20, the guide spring of Kelly urges the plunger in the closed position.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims, and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6, 220,569 to Kelly in view of U.S. Patent No. 4,085,921 to Ueda et al

The rejection of claims 11 above serve as the basis for the following.

As per claims, 14-16, Kelly does not teach a second guide spring attached to the second end (aka, proximal end) of the plunger. Ueda et al teaches a solenoid valve having a plunger (88) having flat guide springs (94) on both ends of the plunger, the second spring biasing a plunger into the closed position. Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Kelly with a flat guide springs on the second end of the plunger as suggested by Ueda et al. Doing so would provide additional valve member responsiveness.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. HOGAN whose telephone number is (571)272-4902. The examiner can normally be reached on Mon-Fri, 6:00a-3:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. H./
Examiner, Art Unit 3752
3/17/10

/Len Tran/
Supervisory Patent Examiner, Art Unit 3752